

Amendments to the Claims:

Please delete Claims 32-38 from the application without prejudice.

1. (currently amended) An adjustable assembly for a powered rotating brush member operating in a surface maintenance vehicle comprising:

a brush assembly housing member having a first aperture and a second aperture ~~formed therein in spaced apart relation and a cam receiving location on a first side thereof~~from the first aperture; and,

a substantially cylindrical brush member ~~having an axis of rotation and a first a rotary attachment location at a bearing assembly connected at a first end at said axis of rotation and having a second rotary attachment location at a second end and at least one of said first end and second end is connected via a coupling mechanism to the brush assembly housing member;~~

~~wherein said coupling mechanism further comprises a pivotable cam member having a threaded bore of diameter approximately equal to a diameter of said first aperture of the brush assembly housing member extending from a first side of the pivotable cam member to an interior portion of the pivotable cam member and an adjustment head member spaced from the threaded bore so that when the bore and the first aperture are aligned on the first side of said brush assembly housing member, a threaded connecting member having an enlarged head may be inserted from a second side of the brush assembly housing member through the first aperture and into the bore to thereby connect and couple the pivotable member to the brush assembly housing member so that the adjustment head member protrudes through the second aperture and a second side opposite the first side of said pivotable cam member engages a first ring portion of a rotary bearing assembly and a second ring portion of said rotary bearing assembly engages the substantially cylindrical brush member; and~~

a coupling mechanism comprising a first cam member having an adjustment head protruding from a first side and a bore spaced from the adjustment head, the bore and the head positioned to correspond to the first and second aperture, respectively, a second cam member having a first side with a third aperture aligned with the bore and a second side of the second

cam member adapted to engage the rotary bearing assembly, and a connecting member extending through the first aperture and the bore and engaging the third aperture.

2. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein the rotary bearing assembly further comprises a first ring portion and a second ring portion spaced from the first ring portion ~~and said, the~~ second ring portion is coupled to the substantially cylindrical brush member and wherein a material designed to reduce friction between said first ring portion and said second ring portion is disposed in a space between said first ring portion and second ring portion.

3. (deleted)

4. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein said brush assembly housing member further comprises a removable cover portion mechanically connected to said housing.

5. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance according to claim 1, wherein ~~said pivotable cam member is a first and a second interlocking member and said bore extends through the first interlocking member and into a threaded blind hole disposed in said second interlocking member and further comprising a ridge member formed adjacent the threaded blind hole and protruding from the first side of the second cam interlocking member which engages a corresponding elongate recess formed in the a second side of the first cam interlocking member to inhibit motion therebetween.~~

6. (original) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 5, wherein the ridge member is formed as at least one pin member and the elongate recess is formed to correspond to the at least one pin.

7. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein the adjustment head is ~~a separate piece from said pivotable cam member is suitably~~ bonded into a port formed in said first cam member.

8. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein the ~~pivotable~~ first cam member is fabricated of at least one of the following materials: metal, powdered metal, ceramic, composite, resin-based, and any of the above further comprising fiber-impregnation or heat tempering and wherein the ~~pivotable~~ first cam member is fabricated by any one or more of the following: cast, milled, molded, sculpted or etched into appropriate shape.

9. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein the first aperture is ~~substantially round and the second aperture is substantially elongated in shape.~~

10. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 1, wherein: a power source for rotating said substantially cylindrical brush member is ~~a select one of the following:~~

~~an electrical motor~~

~~an internal combustion motor,~~

~~a pneumatic motor, or,~~

~~a hydraulic motor; and~~

~~wherein the power source is coupled to the substantially cylindrical brush member via a belt member. select one of the following:~~

~~a direct drive coupling from said power source,~~
~~a reduction gear coupled by a continuous belt to a drive gear which couples to the~~
~~power source,~~
~~a linear actuator,~~
~~a lead screw,~~
~~a continuous cable, or,~~
~~a belt member coupled to the power source which propels the surface maintenance~~
~~vehicle.~~

11. (currently amended) An adjustable assembly for a rotating brush member operating in a surface maintenance vehicle according to claim 10, wherein the ~~location the~~ power source is coupled to the substantially cylindrical brush member ~~is a select one of the following:~~ at a first end of said substantially cylindrical brush member;

~~at a second end of said substantially cylindrical brush member; and,~~
~~at a discrete location between said first end and said second end of said substantially~~
~~cylindrical brush member.~~

12. (currently amended) An adjustable assembly for one of a pair of counter-rotating brush members operating in a surface maintenance vehicle, comprising:

a housing member having a first aperture and a second aperture, spaced from the first aperture, wherein said second aperture has an elongate shape;

a substantially cylindrical first brush member having a first attachment location disposed at a first end; ~~and having a second attachment location disposed at a second end and each of said~~
~~first end and second end rotatably~~

~~a substantially cylindrical second brush member, closely spaced from the substantially~~
~~cylindrical first brush member, having a first attachment location disposed at a first end and~~

~~having a second attachment location disposed at a second end and each of said first end and second end rotatably coupled to the housing member; and~~

a first cam member pivotably coupled to the housing member, ~~at the first attachment location,~~ wherein the first cam member has an adjustment head protruding from a first side, ~~which emerges from first aperture of the housing member and a bore spaced from the adjustment head and a ridge-receiving elongate recess formed on a second side; and~~

a second cam member mechanically coupled to the second side of the first cam member on a first side of the second cam member and wherein the first side of the second cam member has a threaded blind hole formed therein aligned with the first aperture of the housing member and a ridge feature formed thereon corresponding to said ridge-receiving elongate recess and a second side of said second cam member adapted to engage the first attachment location. ~~engages an first ring portion of a bearing assembly, wherein the bearing assembly has an outer ring portion coupled to the rotational axis of the substantially cylindrical brush member;~~

~~wherein said first aperture is adapted to receive the adjustable head member and said second aperture is adapted to receive an elongate shank member having an enlarged head and wherein the elongate shank member provides mechanical engagement between the first cam member and the second cam member.~~

13. (currently amended) An adjustable assembly according to claim 12, further comprising a motive force mechanically coupled to the ~~second attachment location of the substantially cylindrical brush member for driving said brush member at a changing rate of rotation.~~

14. (original) An adjustable assembly according to claim 13, wherein said motive force provides an adjustable magnitude output force so that when said motive force is increased the substantially cylindrical brush member rotates more rapidly and when said motive force is decreased the substantially cylindrical brush member rotates less rapidly.

15. (deleted)

16. (currently amended) An adjustable assembly according to claim ~~13~~15, further comprising a debris capture vessel configured to temporarily collect said particles and debris.

17. (currently amended) An adjustable assembly according to claim 13, wherein said motive force is an electrical motor coupled to the ~~second attachment location~~cylindrical brush member via at least one belt member driving a first driven gear member ~~and via a second driven gear member which is coupled to the rotational axis of the substantially cylindrical brush member.~~

18. (currently amended) An adjustable assembly according to claim 15, further comprising a second substantially cylindrical brush member and a second motive force coupled to the second substantially cylindrical brush member for driving said second substantially cylindrical brush member in a direction of rotation opposite the direction of rotation of said first substantially cylindrical brush member.

19. (currently amended) An adjustable assembly according to claim 12, wherein said first cam member further comprises a pin-receiving recess formed in ~~one of said major surfaces~~ a second side of the first cam member; and,

wherein the second cam member further comprises a pin formed on said first side corresponding to said pin-receiving recess of the first cam member.

20 – 30 (canceled)

31. (currently amended) An adjustable assembly, comprising:

an elongate rotary brush member having a longitudinal axis of rotation;

a first rotational mounting structure coupled to the elongate rotary brush member at the longitudinal axis at a first end of the elongate rotary brush member and a second rotational

mounting structure coupled to the elongate rotary brush member at the longitudinal axis at a first end of the elongate rotary brush member so that said elongate rotary brush member freely rotates about said longitudinal axis;

~~an adjustable mechanism disposed adjacent but spaced from the first rotational mounting structure; and,~~

~~a source of rotational motion coupled to the second end of the elongate rotary brush;~~

~~wherein said adjustable mechanism has a pivot head member disposed at a pivot axis of said adjustable mechanism and the adjustable mechanism pivots on the axis between a partially-released state and a fully-coupled state when the pivot head member pivots about the pivot axis; and,~~

~~(i) in the event that the adjustable release mechanism is in the partially-released state said first rotational mounting structure may translate while the elongate rotary brush member remains coupled to said first rotational mounting structure and said second rotational mounting structure; and,~~

~~(ii) in the event that the adjustable release mechanism is in the fully-coupled state said first rotational mounting structure may not translate.~~

a pair of coupling mechanisms coupling the elongate rotary brush to the first and second rotational mounting structure, each coupling mechanism comprising a cam member having a first side with an adjustment head protruding therefrom, the adjustment head rotatively coupled to each of the first and second rotational mounting structure and a second side adapted to eccentrically and rotatably engage the rotary brush member; and,

a source of rotational motion coupled to the second end of the elongate rotary brush.

32 -38 (canceled)

39. (new) An adjustable brush assembly comprising:

a housing member having a first aperture and a second aperture spaced from the first aperture;

a cylindrical brush member; and

a cam member having an adjustment head protruding from a first side, a bore spaced from the adjustment head, and a second side adapted to engage the cylindrical brush member, the adjustment head rotatively engages the second aperture; and

a connecting member extending through the first aperture and engaging the bore.

40. (new) The assembly of claim 39, wherein the first aperture is elongated and adapted to allow the connecting member to travel in a generally longitudinal direction along the first aperture by rotating the adjustment head.

41. (new) The assembly of claim 39, and further comprising a motive force coupled to the rotary brush assembly.

42. (new) The assembly of claim 39, wherein the cam member is comprised of a first and second cam member, with the first cam member having an adjustment head protruding from a first side and a bore spaced from the adjustment head, the bore and the head positioned to correspond to the first and second aperture, respectively, a second cam member having a first side with a third aperture aligned with the bore and a second side of the second cam member adapted to engage the cylindrical brush member.

Amendments to the Drawings

Attached herewith are corrected drawings which have been amended to separately identify each separate drawing found in Figs. 5-7. Figs. 4 and 5 has also been amended to include reference marks to items 30 and 17 as described in the specification.